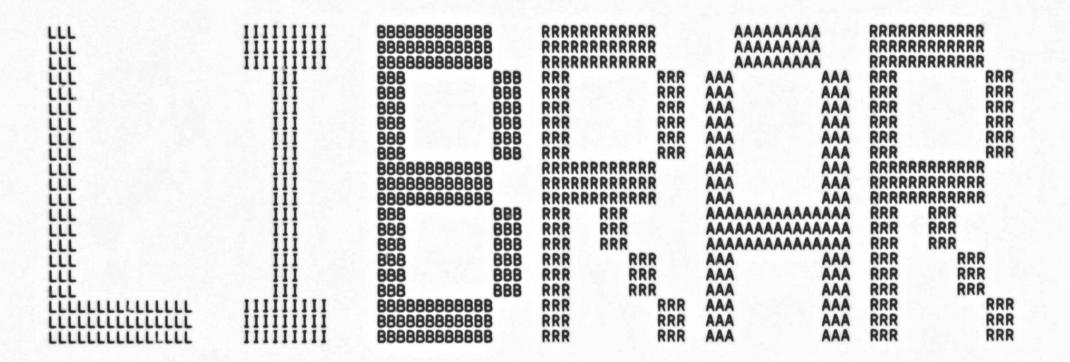
_\$2

Val



\$\$ \$\$ \$\$ \$\$

RR RR RR

PP PP PP

10000000 10000000 10000000 10000000000	000000 00 00 00 00	MM MM MMM MMM MMM MM MM MM MM MM MM MM	PPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPP
		\$	

Page

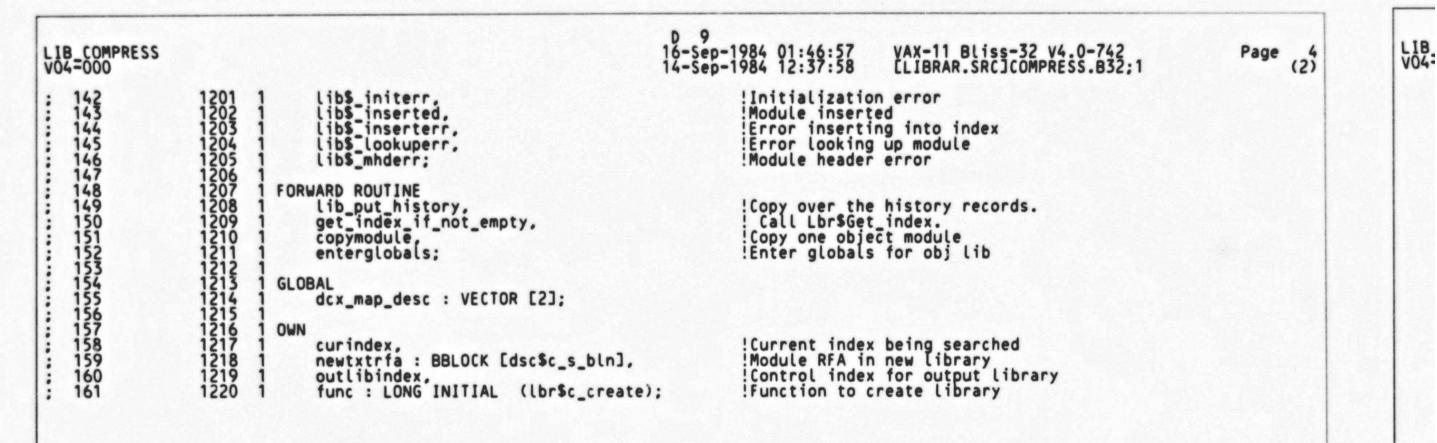
(1)

LIB_COMPRESS V04=000			B 9 16-Sep-1984 01:46:57 14-Sep-1984 12:37:58	VAX-11 Bliss-32 V4.0-742 [LIBRAR.SRC]COMPRESS.B32;1
: 58	0058 1 !		Allow benign compression of an empty library.	
60	0060 1 1 0061 1	v03-001	JWT0056 Jim Teague 16-Sep Equipped with DCX interface for /COMPRESS=REDU	-1982 CE.
63	0063 1 1 0064 1 1	v02-007	RPG0037 Bob Grosso Use library history attributes rather than def	15-Jan-1982 ault.
66	0066 1 I	v02-006	RPG0036 Bob Grosso Improve error reporting with update history	18-Dec-1981
69 70	0069 1 1 0070 1 1	v02-005	RPG0035 Bob Grosso	7-Aug-1981
72	0072 1 I	v02-004	Support CREATE=KEEP. Bob Grosso	30-Jul-1981
75 76	0075 1 ! 0076 1 !	v02-003	BLS0029 Benn Schreiber 23-Dec Change messages to use message compiler.	-1980
58 59 61 61 62 63 64 65 66 67 77 77 77 77 77 77 77 77 77 77 77	0078 1 ! 0079 1 ! 0080 1 ! 0081 1 ! 0082 1	v02-002	RPG0004 Bob Grosso 3-Sep- Exit read or write loops and print end of modu and continue compressing.	1980 le header

LIB VO4

Page 2

```
LIB_COMPRESS
V04=000
                                                                           16-Sep-1984 01:46:57
14-Sep-1984 12:37:58
                                                                                                    VAX-11 Bliss-32 V4.0-742 [LIBRAR.SRC]COMPRESS.B32;1
   LIBRARY
                                     'SYS$LIBRARY:STARLET.L32';
                           REQUIRE
                  0002770
0002770
0002770
0002770
0002770
11155890
111667890
111773
111778
11188
11189
11189
11191
                                     'PREFIX';
                           REQUIRE
                                     'LIBDEF';
                           REQUIRE 'LBRDEF';
                             EXTERNAL ROUTINE
                                1 EXTERNAL
                  1192
                           EXTERNAL LITERAL lbrs_nulidx, libs_emptylibrary,
                  1194
                                                                                    ! Index is empty.
! An empty library is to be
                  1196
1197
                                                                                    Compressed.
Converting info message
Error in update history
                                libs_cnvrting,
libs_histerr,
libs_indexerr,
                  1198
                  1199
                                                                                    !Some strange index error
```



: R

```
LIB_COMPRESS
V04=000
                                                                        16-Sep-1984 01:46:57
14-Sep-1984 12:37:58
                                                                                                   VAX-11 Bliss-32 V4.0-742 [LIBRAR.SRC]COMPRESS.B32:1
                                                                                                                                            Page
                             Get size of keys from input library if new format
                                    BIND
                                        indexdesc = .header + lhd%c_idxdesc : BBLOCK;
                                                                                                   !Point to first index descriptor
   lib$gl_allksz = .indexdesc [idd$w_keylen] - 1;
                                                                                                   !Get size of keys minus count byte
                                    END:
                           lib$gl_keysize = .lib$gl_allksz;
lib$gl_cre8flags [lib$c_opt_ksz] = true;
                                                                                                   !Set key size for future reference
                                                                                                   !Flag specified now
                               To determine the maximum number of history records for new library, if /COMPRESS=HISTORY:n specified then its value will be used, else use attribute from old library header.
                           IF NOT .lib$gl_cre8flags [lib$c_opt_luhs]
                          !Init the control index
                             If the user specified /COMPRESS, (not /DATA), and the input library
                             is already reduced, keep it that way.
                           IF NOT .lib$gl_ctlmsk [lib$v_data]
                             AND .header [lhd$l_dcxmapvbn] neq 0
                               lib$gl_cre8flags [lib$c_opt_dcx] =1;
                           ! If we're creating a DCX-processed library...
                          IF .lib$gl_cre8flags[lib$c_opt_dcx]
                          THEN
                               perform( lbr$dcx_map(lib$gl_libctl, dcx_map_desc ));
                          !Set default ext.
                                                                                                   !Set up related filename block
                               Save size of additional data area in module if /COMP=KEEP
                          usrmodhdrlen = .lib$al_hdrlen [.lib$gl_type];
                                                                                                   !Save defaults
                           If .lib$gl_ctlmsk [lib$v_keep]
                               lib$al_hdrlen [.lib$gl_type] = .header [lhd$b_mhdusz];
                                                                                                   !Use value in library
                           ! Create output library; make it with data reduced if it should be so.
                          perform (lib_create_lib (.lib$gl_outfdb, outlibindex, (IF .lib$gl_cre8flags[lib$c_opt_dcx] THEN dcx_map_desc ELSE 0) 7);
                           lib$al_hdrlen [.lib$gl_type] = .usrmodhdrlen;
                                                                                                   !Restore defaults
                           If .lib$gl_ctlmsk [lib$v_convert]
THEN SIGNAL (lib$_cnvrting, 2, outdesc, libdesc);
                                                                                                   !If this is forced convert
                                                                                                   ! tell user whats happening
```

```
LIB_COMPRESS
V04=000
                                                                   16-Sep-1984 01:46:57
14-Sep-1984 12:37:58
                                                                                            VAX-11 Bliss-32 V4.0-742
[LIBRAR.SRC]COMPRESS.B32;1
                                                                                                                                       (3)
                           Call the library procedures to return each entry in the module name
                           index. It will call copymodule for each entry.
                        !If history is to be retained then
                         THEN
                             BEGIN
                             status = lbr$get_history (lib$gl_libctl, lib_put_history); !copy history
                             IF NOT .status
                             THEN
                                 SIGNAL (libs_histerr, 1, libdesc, .status);
                             END:
              P
                         rms_perform (lbr$close (outlibindex),
                                                                                            !Close the new library
                                          lib$_closeout, .lbr$gl_rmsstv, 1, outdesc);
              P
                         !and the old library
                         lib$gl_ctlmsk [lib$v_oldlib] = false;
lib$gl_libfdb = .lib$gl_outfdb;
                                                                                            No longer old library
                                                                                             Make the library FDB
                                                                                             the old output FDB
                         perform (lbr$ini_control (lib$gl_libctl, after_func,
                                                                                            !Init control block to open lib
                                          lib$gl_type, outnamblk),
lib$_initerr, 1, outdesc);
                 1360
                         rms_perform (lbr$open (lib$gl_libctl),
              P
                                                                                            !Open newly created library
                                          lib$_openin, .lbr$gl_rmsstv, 1, outdesc);
                         RETURN true
                        END:
                                                                           !Of lib_compress_lib
                                                                              .TITLE
                                                                                     LIB_COMPRESS
                                                                                      \V04-000\
                                                                              . IDENT
                                                                                     SOWNS, NOEXE, 2
                                                                              .PSECT
                                                               00000 CURINDEX:
                                                                              BLKB
                                                               00004 NEWTXTRFA:
                                                                              BLKB
                                                               OOOOC OUTLIBINDEX:
                                                                              .BLKB
                                                                              . LONG
                                                    00000000
                                                              00010 FUNC:
                                                                              .PSECT
                                                                                     $GLOBAL$,NOEXE,2
                                                               00000 DCX_MAP_DESC::
                                                                              .BLKB
                                                                                     LIB_GET_MEM, LBR$DCX_MAP
LBR$GET_HISTORY
                                                                              .EXTRN
                                                                              .EXTRN
                                                                              .EXTRN
                                                                                      LBR$PUT_HISTORY
                                                                                      LBRSGET INDEX, LBRSFIND
LBRSLOOKUP_KEY, LBRSINSERT_KEY
                                                                              .EXTRN
                                                                              .EXTRN
```

SRELLMC

```
16-Sep-1984 01:46:57 VAX-11 Bliss-32 V4.0-742 LIBRAR.SRCJCOMPRESS.B32;1
                                                                                                                    LBR$PUT_END, LBR$SET_INDEX
LBR$SET_MODULE, LBR$GET_RECORD
LBR$PUT_RECORD, LBR$SEARCH
LBR$OPEN, LBR$CLOSE
LBR$INI CONTROL
LBR$INSERT_TIME
LIB_LOG_OP, LIB_CREATE_LIB
LBR$GL_TYPE, LIB$AL_HDRLEN
LIB$AL_ASCBINF, LIB$GL_KEYSIZE
LIB$GL_LIBCTL, LIB$GL_CILMSK
LIB$GL_OUTFDB, LIB$GL_CTLMSK
LIB$GL_CRE8FLAGS
LIB$GL_ALLGBLS, LIB$GL_ALLHIS
LIB$GL_ALLGBLS, LIB$GL_ALLHIS
LIB$GL_MODNAMIX
LBR$_NOLIDX, LIB$_EMPTYLIBRARY
LIB$_CNVRTING, LIB$_HISTERR
LIB$_INDEXERR, LIB$_INITERR
LIB$_INSERTED, LIB$_INSERTERR
LIB$_LOOKUPERR, LIB$_MHDERR
                                                                                                       .EXTRN
                                                                                                       .EXTRN
                                                                                                       .EXTRN
                                                                                                       .EXTRN
                                                                                                       .EXTRN
                                                                                                       .EXTRN
                                                                                                       .EXTRN
                                                                                                       .EXTRN
                                                                                                        .EXTRN
                                                                                                        .EXTRN
                                                                                                       .EXTRN
                                                                                                        .EXTRN
                                                                                                       .EXTRN
                                                                                                       .EXTRN
                                                                                                       .EXTRN
                                                                                                       .EXTRN
                                                                                                       .EXTRN
                                                                                                       .EXTRN
                                                                                                       .EXTRN
                                                                                                       .EXTRN
                                                                                                        .EXTRN
                                                                                                       .PSECT
                                                                                                                     $CODE$, NOWRT, 2
                                                                                                                    OFFC 00000
                                                                                                       .ENTRY
                                                                                                       ADDL3
ADDL3
ADDL3
ADDL3
                          0000G
                                                                             00002
                          0000G
                                                                10
                                                                       C1
                                                                             00008
                          0000G
                                           00000040
                                      CF
                                                                8F
00
01
02
03
CF
                                                                       C1
                                                                             0000E
                                      ČF
50
                          0000G
                                           00000040
                                                                       C1 00018
                                                                       DO 00022
DO 00029
                                            00000000G
                                                                                                       MOVL
                                                       OA
                                                                                                       MOVL
                                                                       E0 00020
C3 00033
                         0000G
                                                                                                       BBS
0000G
                             6A
                                                                                                       SUBL 3
                                                                       EO 0003B 15:
                         0000G
                                      CF
                                                                                                       BBS
0000G
                         6E
0000G
                                                       78
                                                                                                       ADDL3
                                                                      E0 00049
95 0004F
18 00053
D0 0005A
11 00062
                                                                             00049 28:
                                                                                                       BBS
                                                   0000G
                                                                                                       TSTB
                                                                                                       BGEQ
                                                                                                                      LIBSGL_TYPE, RO
LIBSAL_ASCBINF[RO], LIBSGL_ALLKSZ
                                                   0000G
                                                                                                                                                                                                          1275
                                                                                                       MOVL
                         0000G
                                                   0000GCF40
                                                                                                       MOVL
                                                                            00062
00064
00069
                                                                                                       BRB
                                                   00C4
02
0000G
                                                                                                                      196(HEADER), RO
2(RO), LIBSGL_ALLKSZ
                                                                       95070880CD9FF
                                                                CAO CF 84 68 CF CF
                                                                                                       MOVAB
                          0000G
                                                                                                       MOVZWL
                                                                                                                     LIBSGL_ALLKSZ
LIBSGL_ALLKSZ, LIBSGL_KEYSIZE
#8, LIBSGL_CRE8FLAGS
#4, LIBSGL_CRE8FLAGS, 5$
124(HEADER), LIBSGL_ALLHIS
                                                                            0006f
00073 4$:
                                                                                                       DECL
                          0000G
                                                   0000G
                                                                                                       MOVL
                                                                            0007A
0007F
                          0000G
                                                                                                       BISB2
            06
                          0000G
                                                                                                       BBS
                          0000G
                                                       70
                                                                             00085
                                                                                                       MOVZWL
                                                                            0008B 5$:
                                                                                                       PUSHL
                                                   0000.
0000.
                                                                                                       PUSHAB
                                                                                                                     LIBSGL_TYPE
                                                                             00091
00095
                                                                                                       PUSHAB
                                                                                                                     FUNC
                                                                                                                      OUTLIBINDEX
                                                                                                       PUSHAB
                                                                       FB
E8
                                                                             00099
                  0000000G
                                                                                                       CALLS
                                                                                                                      #4, LBRSINI_CONTROL
                                                                                                                      STATUS, 65
                                                                                                       BLBS
                                                                                                       PUSHL
                                                                                                                      STATUS
```

LIB_COMPRESS V04=000

							12	-Sep-19	84 01:46 84 12:37	57 VAX-	11 Bliss-32 V4.0-742 RAR.SRCJCOMPRESS.B32;1	Page 9
	OC	00000000G 0000G	00 CF	00000000G 008C	59 01 8F 04 03 C6	DDDDB053858FFB900800058A58ED1	000A5 000A7 000A9 000AF 000B6 000BC 000C2 000C2	6\$:	PUSHL PUSHL PUSHL CALLS BBS TSTL	R9 #1 #LIBS INIT #4, LIBSSI #3, LIBSGL 140(HEADER	ERR GNAL CTLMSK+4, 7\$	1302
		0000G	CF	0000G	C6 06 8F CF 12	13 88 95	00000 20000 80000	7\$:	BEQL BISB2 TSTB	#128, LIBS	GL_CRE8FLAGS 8FCAGS	1305 1309
		000000006	00	0000G	CF CF 02 50	9F 9F FB	000CC 000CE 000D2 000D6 000DD		BEQL BISB2 TSTB BGEQ PUSHAB PUSHAB CALLS BLBC MOVL MOVL MOVL	DCX MAP DE LIBSGL LIB #2, LBRSDC	SC CTL X_MAP \$- \$FDB, RO FDB, R7 8(R7)) E, RO LEN[RO], USRMODHDRLEN MSK+3	1311
08	A7	08 10	48 50 57 A0	0000G	CF CF O8	DÓ DÓ 28		8\$:	MOVL MOVL MOVC3	LIBSGL_LIB LIBSGL_OUT #8, 8(RO),	FDB, R0 FDB, R7 8(R7)	1313
		10	A0 A8 50 52	0000G 0000G 0000G	F40 CF	DO DO DO 95	000F0 000F4 000F9		MOVI	R10, 16(R8 LIB\$GL_TYP LIB\$AL_HDR LIB\$GL_CTL	E, RO LENCROJ, USRMODHDRLEN	1315 1319 1321
		0000GC	F40	0000G	07 A6 CF 09	18 9A 95	000EA 000F0 000F4 000F9 000FF 00103	98:	MOVL TSTB BGEQ MOVZBL TSTB	9\$ 60(HEADER) LIB\$GL_CRE	. LIBSAL HDRLEN[RO]	1323
			50	0000*	CF 50 02 7E	9E DD 11	00112	10\$: 11\$:	MOVAB PUSHL BRB CLRL	10\$ DCX_MAP_DE RO 11\$ -(SP)		
		0000G	CF 01	0000*	CF 57 03 50	9F 9B FB 04	0011B 0011D 00121 00123 00128 0012B 0012C 00131	115:	PUSHAB PUSHL CALLS BLBS	OUTLIBINDE R7 #3, LIB_CR STATUS, 13		
		0000GC	50 F40 13	0000G	CF 52 CF	04 00 00 E9	0012B 0012C 00131 00137	13\$:	RET MOVL MOVL BLBC PUSHR		E, RO EN, LIBSAL_HDRLEN[RO] MSK+3, 14\$	1330
				0A00 00000000G	CF 52 CF 8F 02 8F	BB DD DD	0013C 00140 00142		PUSHL	# I THE CHUP	TING	1332
		00000000 0000V	00 CF 19	00000000G	50 50 50 50 58	0009BDDBBBBDDDBB58FFBBDDDDBB58FBBDDDBB58FBBDDDBB58FBBDDDBB58FBBDDDBB58FBBDDDBB58FBBDDDBB58FBBDDDBB58FBBDDDBB58FBBDDDBB58FBBDDDBB58FBBBDDBB58FBBBDDDBB58FBBBDDDBB58FBBBDDDBB58FBBBDDDBB58FBBBDDDBB58FBBBDDDBB58FBBBDDDBB58FBBBDDBB58FBBBDDBB58FBBBDDBB58FBBBDDBB58FBBBDDBB58FBBBBDDBB58FBBBBDDBB58FBBB58FBBBDDBB58FBBB58FBBB58FBBB58FBBB58FBB58F	0013C 00142 00148 0014F 00157 00157 00163 00169 00176 00178 00188 00188	14\$:	CALLS CALLS BLBS PUSHL PUSHL PUSHL	#0, GET_INI STATUS, 15: LBR\$GL_RMS: STATUS R11	GNAL DEX_IF_NOT_EMPTY	1339
		0000000G	00	0000000G	8F 05 CF	DD FB 95	00163 00169 00170	15\$:	PUSHL PUSHL CALLS TSTB	#LIBS INDE	XERR GNAL	1340
		00000000G	00	0000V	CF CF 02 50	9F 9F FB E8	00176 0017A 0017E 00185		BGEQ PUSHAB PUSHAB CALLS BLBS PUSHL	16\$ LIB PUT HIS LIBSGL CIB #2, LBR\$GE STATUS, 169 STATUS R11	STORY CTL T_HISTORY	1343 1344 1346
					50 5B	00	0018A		PUSHL	RII		: 1346

LIB_COMPRESS V04=000			J 9 16-Sep-1984 01:46:57 VAX-11 Bliss-32 V4.0-742 14-Sep-1984 12:37:58 [LIBRAR.SRC]COMPRESS.B32;1	Page 10 (3)
		000000006 000000000	O4 FB 00194 CALLS #4, LTB\$SIGNAL CF 9F 0019B 168: PUSHAB OUTLIBINDEX	1350
		00861058 00000 00000000000000000000000000000	01 DD 001B3 PUSHL #1 8F DD 001B5 PUSHL #8786008 05 FB 001BB CALLS #5, LIB\$SIGNAL G CF 9F 001C2 17\$: PUSHAB LIB\$GL LIBCTL 01 FB 001C6 CALLS #1, LBR\$CLOSE 50 E8 001CD BLBS STATUS, 18\$ G 00 DD 001D0 PUSHL LBR\$GL_RMSSTV 50 DD 001D6 PUSHL STATUS	1353
	000000006 00006 00006	00861050 00 00 00 00 00 00 00 00 00 00 00 00	59 DD 001D8 PUSHL R9 01 DD 001DA PUSHL #1 8F DD 001DC PUSHL #8786000 05 FB 001E2 CALLS #5, LIB\$SIGNAL 8F 8A 001E9 18\$: BICB2 #128, LIB\$GL_CTLMSK+2 G CF DO 001EF MOVL LIB\$GL_OUTFDB, LIB\$GL_LIBFDB 58 DD 001F6 PUSHL R8 G CF 9F 001F8 PUSHAB LIB\$GL_TYPE AC 9F 001FC PUSHAB AFTER_FUNC	1355 1356 1360
	00000000G (00000 00000 00000 00000 00000 00000	G 8F DD 00213 PUSHL #LIB\$ INITERR 04 FB 00219 CALLS #4, LIB\$SIGNAL	1363
	000000006	00861098	01 FB 00224	1365 1366

; Routine Size: 587 bytes, Routine Base: \$CODE\$ + 0000

```
LIB_COMPRESS
V04=000
                                                                               16-Sep-1984 01:46:57
14-Sep-1984 12:37:58
                                                                                                             VAX-11 Bliss-32 V4.0-742 [LIBRAR.SRC]COMPRESS.B32;1
                                                                                                                                                         Page 11 (4)
                             ROUTINE get_index_if_not_empty =
                             BEGIN
                             LOCAL
                                  status:
                                Call the library procedures to return each entry in the module name
                                index. It will call copymodule for each entry. Treat the empty library
                                case benignly.
                             status = lbr$get_index (lib$gl_libctl, lib$gl_modnamix,
                                                                                                             !Return the index
                                                                                                             and call copymodule for each entry
                                                           copymodule);
                                 .status EQL lbrs_nulidx THEN
                                  BEGIN
                                   signal (lib$_emptylibrary, 1, lib$gl_libfdb[fdb$l_namdesc]);
                                   status = ss$_normal;
                                   END:
                             RETURN .status;
                             END:
                                                                    0004 00000 GET_INDEX_IF_NOT_EMPTY:
                                                                                                                                                              1367
1376
                                                         0000V
0000G
0000G
                                                                                            PUSHAB
                                                                                                      COPYMODULE
                                                                                                     LIBSGL_MODNAMIX
                                                                          00006
                                                                 CFF30280012
                                                                                            PUSHAB
                                                                          0000A
                                                                                            PUSHAB
                                                                      FB
DO
                                                                                                     #3, LBRSGET_INDEX
RO, STATUS
                                                                          0000E
                                  0000000G
                                                                                            CALLS
                                                                          00015
                                                                                            MOVL
                                  0000000G
                                                                      D1
121
DD DB
DD BO
DO 04
                                                                          00018
                                                                                                                                                              1379
                                                                                            CMPL
                                                                                                      STATUS, #LBR$_NULIDX
                                                                          0001F
                                                                                           BNEQ
                                                                          00021
                               7E
                                        0000G
                                                CF
                                                                                            ADDL3
                                                                                                     #16, LIB$GL_LIBFDB, -(SP)
                                                                                                                                                              1381
                                                                         00027
00029
0002F
00036
00039
                                                                                           PUSHL
                                                                                                     #LIBS EMPTYLIBRARY
#3, LIBSSIGNAL
#1, STATUS
                                                    0000000G
                                                                                           PUSHL
                                                00
52
50
                                   0000000G
                                                                                            CALLS
                                                                                                                                                              1382
1385
1386
                                                                                            MOVL
                                                                                                     STATUS, RO
                                                                                            MOVL
                                                                          0003C
                                                                                           RET
```

Routine Base: \$CODE\$ + 024B

; Routine Size: 61 bytes,

THEN BEGIN

END:

1440

1441

DO BEGIN

EXITLOOP:

.rms_status NEQ rms\$_eof)

WHILE (bufdesc [dsc\$w_length] = lbr\$c_pagesize;

rms_status = [br\$get_record ([ib\$gl_libctl, bufdesc, bufdesc); !Read all records of module

IF NOT .rms_status AND (.rms_status NEQ rms\$_eof)

SIGNAL (lib\$_readerr, 1, libdesc, .rms_status, .lbr\$gl_rmsstv);

LIB VO4

Page 12 (5)

				0	FFC	00000	COPYMOD	ULE:			
		58 59 58 57 50 50	00000000G 00000000G 00000000G 00000000G 000000	00 8F CF 00 00 CE 00 A0	9E 9E 9E 9E	00002 00009 00010 00015 0001C 00023 00028 0002F 00039		.WORD MOVAB MOVAB MOVAB MOVAB MOVAB MOVAB	Save R2,R3,R4,R5,R6,R7,R8,R9,R10,R11 LBR\$SET_INDEX, R11 #LIB\$_INDEXERR, R10 OUTLIBINDEX, R9 LBR\$GL_RMSSTV, R8 LIB\$SIGNAL, R7 -528(SP), SP LBR\$GL_CONTROL, R0 10(R0), R2 #16, LIB\$GL_LIBFDB, R5 #16, LIB\$GL_DUTFDB, R6 MODRFA LIB\$GL_LIBCTL #2, LBR\$FIND STATUS, 1\$ LBR\$GL_RMSSTV STATUS R5 KEYDESC	1387	
55 56	0000G 0000G	SZ CF CF	0A	10	D0 C1	00033		MOVL MOVL ADDL3 ADDL3 PUSHL	#16, LIB\$GL_LIBFDB, R5	1421 1422 1425	
			0000G	AC CF	DD 9F	0003F 00042		PUSHL	MODRFA LIB\$GL_LIBCTL	1425	
	0000000G	00 14		50	FB E8	0003F 00042 00046 0004D 00050		PUSHAB CALLS BLBS PUSHL PUSHL PUSHL PUSHL PUSHL	#2, LBR\$FIND STATUS, 1\$		
				50	E8 DD DD	00050 00052 00054		PUSHL	STATUS PS		
			04	AC 02	DD	00056		PUSHL	KEYDESC		
		67	0000000G	8F 06	DD DD FB 9E	0005B 00061			#I TRE I MOVIDEDD		
	00	AE 54 AE	10	AE 01	9E DO	00064	1\$:	MOVAB MOVL	HEADER, BUFDESC+4	1427 1428 1434 1435	
	08	AE	0200 08 00	8F AE	D0 B0 9F 9F	0006C 00072	2\$:	CALLS MOVAB MOVL MOVW PUSHAB PUSHAB	#6, LTB\$SIGNAL HEADER, BUFDESC+4 #1, FIRST PUT #512, BUFDESC BUFDESC BUFDESC BUFDESC	1434	
	000000006	00	00006	CF	9F	00075		PUSHAB	LIB\$GL_LIBCTL		
	00000000	00 53 19		50	FB D0 E8 D1	00083		PUSHAB CALLS MOVL BLBS CMPL	LIBSGL_LIBCTL #3, LBRSGET_RECORD R0, RMS_STATUS RMS_STATUS, 3\$ RMS_STATUS, #98938	1436	
	0001827A	8F		100CF20805C2F6E1FEEF30550	D1 13	00056 00058 00061 00064 00069 00062 00075 00078 00078 00085 00089 00089		CMPL BEQL	RMS_STATUS, #98938	1430	

					16	10 -Sep-	-1984 01:46 -1984 12:37	57 VAX-11 Bliss-32 V4 58 [LIBRAR.SRC]COMPRE	.0-742 Page	15
			68555	DD DD	00092 00094 00096 00098	С	PUSHL PUSHL PUSHL PUSHL PUSHL	LBR\$GL_RMSSTV RMS_STATUS R5	j	1438
		00861082	01 8F	DD	00098 0009A		PUSHL	#8786098	:	
0001827A	8F		53	01	0009A 00000 00002	3\$:	BRB CMPL	6\$ RMS_STATUS, #98938		1442
	06 50	F8	54 A9	15 E9 9E	000A9 000AB 000AE 000B2		BEQL BLBC MOVAB	8\$ FIRST_PUT, 4\$ NEWTXTRFA, RO 5\$		1447
	50		6E	QF	UUUB4	45:	BRB MOVAB PUSHI	ŔFA, RO RO		
		00	AE 59	9F DD	000B9		PUSHAB	BUFDESC		1446
0000000G	13		03 50 68 50	טט	000B7 000B9 000BC 000BE 000C5 000C8		PUSHL PUSHAB PUSHL CALLS BLBS PUSHL PUSHL PUSHL	#3, LBRSPUT_RECORD STATUS, 7\$ LBR\$GL_RMSSTV STATUS		1448 1450
	67	008610D2	56 01 8F 05	DD DD FB	000CC 000CE 000D0 000D6 000D9	6\$:	CALLS	R6 #1 #8786130 #5, LIB\$SIGNAL 8\$		1449
			54	D4	000DB 000DD	7\$:	BRB CLRL BRB	FIRST_PUT		1454
0000000G	00 11		655083535A065A505655080058505655080C50555050AA55	FB E8 DD	000DF 000E1 000E8 000EB 000ED	8\$:	PUSHL CALLS BLBS PUSHL PUSHL PUSHL	2\$ R9 #1, LBR\$PUT_END STATUS, 9\$ LBR\$GL_RMSSTV STATUS R6		1460
	67	008610D2 0000G	01 8F 05 CF	DD FB 9F	000F1 000F3 000F9	9\$:	PUSHL PUSHL CALLS PUSHAB PUSHL	R6 #1 #8786130 #5, LIB\$SIGNAL LIB\$GL_MODNAMIX		1465
	6B 0B		50 50 56 01	DD FB E8 DD DD	00100 00102 00105 00108 0010A 0010C		CALLS BLBS PUSHL PUSHL PUSHL	#2, LBR\$SET_INDEX STATUS, 10\$ STATUS R6 #1		
	67		04 04	DD DD FB 9F	0010C 0010E 00110 00113	100.	PUSHL CALLS PUSHAB	R10 #4, LIB\$SIGNAL		1/49
	53	F8 04	AC S3	DO	00116	10\$:	MOVL	NEWTXTRFA KEYDESC, R3 R3		1468
0000000G	00		59 03 50 68	DODDER BODDER BODDER SE	0011A 0011C 0011E 00125 0012A 0012C 0013C 0013B		PUSHL CALLS BLBS PUSHL PUSHL PUSHR PUSHL PUSHL	R9 #3, LBR\$INSERT_KEY STATUS, 11\$ LBR\$GL_RMSSTV STATUS #^M <r3,r6></r3,r6>		
		0048	50 8F	DD BB	0012A 0012C		PUSHR	STATUS // MARS, R6>		
08	67 AE	00000000G 80	03 50 68 50 8F 02 8F 06 8F	DD DD FB 9B	00130 00132 00138 0013B	115:	PUSHL PUSHL CALLS MOVZBW	#2 #LIB\$_INSERTERR #6, LIB\$SIGNAL #128, BUFDESC		1473

				15	10 -Sep-	1984 01:46 1984 12:37	:57 VAX-11 Bliss-32 V4 :58 [LIBRAR.SRC]COMPRE	.0-742 SS.B32;1	Page 16 (5)
ОС	AE	10 08 00 08 0000G	AE AE AE	9E 00140 9F 00145 9F 00148		MOVAB PUSHAB PUSHAB	HEADER, BUFDESC+4 BUFDESC BUFDESC		1474
0000000G	00	0000G	AEECF408080	9E 00145 9F 00148 9F 00148 9F 00148 9F 00159 DD 0015E DD 0015E DD 0016A PF 0016A 9F 00173 PB 00187 PF 00184 PF 0018E DD 0018E		MOVAB PUSHAB PUSHAB PUSHAB CALLS BLBS PUSHL PUSHL PUSHL	MODRFA LIB\$GL_LIBCTL #4, LBR\$SET_MODULE STATUS, 12\$ LBR\$GL_RMSSTV STATUS #^M <r3,r5></r3,r5>	/	
	67	00000000G 18 F8	8F 06 AE A9	DD 00164 FB 0016A 9F 0016D 9F 00170	12\$:	FUSHE	#2 #LIB\$ MHDERR #6, LIB\$SIGNAL HEADER+8 NEWTXTRFA		1480
0000000G	00	0000G	03 CF	FB 00175 9F 0017C		CALLS PUSHAB	R9 #3, LBR\$INSERT_TIME LIB\$GL_MODNAMIX		1482
	6B 0B	0000G	8082F6E993FF20051A42A2EEE99	9F 00170 DD 00173 FB 00175 9F 00180 FB 00184 E8 00187 DD 00186 DD 00186		CALLS PUSHAB PUSHAB PUSHAB PUSHAB CALLS BLBS PUSHL PUSHL PUSHL	#3, LBR\$INSERT TIME LIB\$GL_MODNAMIX LIB\$GL_LIBCTL #2, LBR\$SET_INDEX STATUS, 13\$ STATUS R5		
	67	3C	5A 04	DD 0018E DD 00190 FB 00192 95 00195 13 00198 9B 0019A 9E 0019F 9F 001A4	13\$:	PUSHL CALLS TSTB	R10 #4, LIB\$SIGNAL 60(R2) 15\$		1487
08	AE		4A A2	13 00198 9B 0019A	130.		15\$ 60(R2), BUFDESC		1489
08 0C	AE	3C 20 08	AE	9E 0019F 9F 001A4 7C 001A7 9F 001A9		MOVAB PUSHAB CLRQ PUSHAB	60(R2), BUFDESC HEADER+16, BUFDESC+4 BUFDESC		1490
		F8	A9	7C 001A7 9F 001A9 DD 001AC		PUSHAB	-(SP) NEWTXTRFA R9		
0000000G	13			FB 001AE E8 001B5 DD 001B8 DD 001BA		CALLS BLBS PUSHL PUSHL	#5, LBR\$SET_MODULE STATUS, 14\$ LBR\$GL_RMSSTV STATUS #^M <r3,r6></r3,r6>		
		0048	8F 02	BB 001BC DD 001C0		PUSHR PUSHL	#^M <r3,r6> #2</r3,r6>		
	67	000000006 00006	06 CF	FB 001C8 9F 001CB	145:	CALLS	#6, LIB\$SIGNAL LIB\$GL MODNAMIX		1494
	6B 0B	0000G	CF 02 50 55	9F 001CF FB 001D3 E8 001D6 DD 001D9 DD 001DB		PUSHAB CALLS BLBS PUSHL PUSHL	#2 #LIB\$_MHDERR #6, LIB\$SIGNAL LIB\$GL_MODNAMIX LIB\$GL_LIBCTL #2, LBR\$SET_INDEX STATUS, 15\$ STATUS R5 #1		
	67 52 01	01	5080F2F6FF20051A42252B4	FB 001AE E8 001B5 DD 001BA BB 001BC DD 001C2 FB 001C8 9F 001C8 9F 001C6 PF 001D3 E8 001D6 DD 001D9 DD 001DB DD 001DB DD 001E1 9A 001EB D0 001F0 D0 001F2	15\$:	CALLS BLBS PUSHL PUSHL PUSHL PUSHL CALLS PUSHAB CALLS BLBS PUSHL	R10 #4, LIB\$SIGNAL 1(R2), R2 R2, #1 19\$ #2, I 18\$		1500
	54		02 2B	DO 001ED 11 001F0		MOVL BRB	#2, I 18\$		1502
F4	A9		54	DO 001F2	16\$:	MOVL	I, CURINDEX		: 1504

LIB_COMPRESS V04=000				D 10 16-Sep-198 14-Sep-198	4 01:46: 4 12:37:	:57 VAX-11 Bliss-32 V4.0-742 :58 [LIBRAR.SRC]COMPRESS.B32;1	Page 17 (5)
	00000000G 00 0D	0000V C 08 A 64 A 0000G C	F 9F 001F OD 001F P 9F 001F F 9F 0020 0 E8 0020 0 DD 0021 5 DD 0021	6 A D D D D D D D D D D D D D D D D D D	PUSHAB PUSHAB PUSHAB CALLS BLBS PUSHL PUSHL	ENTERGLOBALS MODRFA CURINDEX LIB\$GL_LIBCTL #4, LBR\$SEARCH STATUS, 17\$ LBR\$GL_RMSSTV STATUS R5	: 1507
	67 52 68 08	0000G 0000G	DD 0021 DD 0021 FB 0021 D6 0021 D1 0021 D1 0022 F 9F 0022	4 66 8 8 17\$: 0 18\$: 0 2 19\$:	PUSHL CALLS INCL CMPL BLEQU PUSHAB	R10 W5, LIB\$SIGNAL I R2 16\$ LIB\$GL_MODNAMIX LIB\$GL_LIBCTL W2, LBR\$SET_INDEX STATUS, 20\$ STATUS	1502 1513
	67	0000G 5	DD 0023 DD 0023 A DD 0023 F DD 0023 F DD 0023	0 2 4 6 8 8 20\$: F	MOVL	STATUS R5 W1 R10 W4, LIB\$SIGNAL LIB\$GL_OUTFDB R3 WLIB\$_INSERTED W3, LIB_LOG_OP W1, R0	1515 1517 1518
1: 465 1521 2 RF	UTINE lib_put_histo GIN +		0288		RET		; 1518
: 466 1522 2 467 1523 2 468 1524 2 469 1525 2 RE 470 1526 1 EN	TURN lbr\$put_histor D; ! of lib_put_		0000 0000	O LIB PUT	HISTORY:	Save nothing	: 1520 : 1525
; Routine Size: 17 bytes,	00000000G 00 Routine Base:	0000 Ci	04 0001	2590	.WORD PUSHL PUSHAB CALLS RET	REC DESC OUTCIBINDEX #2, LBR\$PUT_HISTORY	1525

```
LIB_COMPRESS
V04=000
                                                                                                            VAX-11 Bliss-32 V4.0-742
[LIBRAR.SRC]COMPRESS.B32:1
                                                                                                                                                         Page 18 (6)
                             ROUTINE enterglobals (keydesc) = BEGIN
   This routine is called to enter a global symbol into the global symbol
                                index for an object module
                                Inputs:
                                       keydesc
                                                           address of descriptor for symbol name
                                Outputs:
                                       Global symbol name is entered into index of new library
                                   keydesc : REF BBLOCK:
                                                                                         !Really a string descriptor
                             BIND
                                  libdesc = lib$gl_libfdb [fdb$l_namdesc] : BBLOCK,
outdesc = lib$gl_outfdb [fdb$l_namdesc] : BBLOCK;
                                                                                                   !Name the filename descriptor
                             P
                             rms_perform (lbr$insert_key (outlibindex, .keydesc, newtxtrfa),
                                                 lib$_inserterr, .lbr$gl_rmsstv, 2, .keydesc, outdesc);
                             RETURN true
                   1560
                             END:
                                                                               !of enterglobals
                                                                    OOFC 00000 ENTERGLOBALS:
                                                                                                     Save R2,R3,R4,R5,R6,R7

#LIB$ INDEXERR, R7

LBR$SET INDEX, R6

OUTLIBINDEX, R5

LIB$SIGNAL, R4

#16, LIB$GL_LIBFDB, R3

#16, LIB$GL_OUTFDB, R2

CURINDEX
                                                                                                                                                              1527
                                                                                            . WORD
                                                   00000000G
0000000G
                                                                                           MOVL
                                                                      099E111FDBB0DDDB8F
                                                                 00F0010552005045
                                                                          00009
                                                    00000000
0000
                                                                                           MOVAB
MOVAB
                               53
                                       0000G
                                                                                           ADDL3
                                                CF
                                                           F4
                                                                                           PUSHAB
                                                                                           PUSHL
                                                                                                     #2, LBR$SET_INDEX
STATUS, 1$
STATUS
                                                66
0B
                                                                                           PUSHL
                                                                                           PUSHL
                                                                                           PUSHL
                                                                                                     #4. LIB$SIGNAL
                                                64
                                                                                           PUSHAB
                                                                                                     NEWTXTRFA
                                                                                                                                                              1554
                                                           F8
```

53

65

65

65

65

61

65 2E

20

00

62

20

SE SE

60

37

53

000

```
LIB_COMPRESS
V04=000
                                                                                                 16-Sep-1984 01:46:57
14-Sep-1984 12:37:58
                                                                                                                                  VAX-11 Bliss-32 V4.0-742
[LIBRAR.SRC]COMPRESS.B32;1
                                                                                                                                                                                            Page 19
                                                                                                                            KEYDESC
R5
#3, LBR$INSERT_KEY
STATUS, 2$
LBR$GL_RMSSTV
STATUS
                                                                                      A5050002C2F6FF2005550501
                                          0000000G
                                                               0000000G
                                                                                                                             KEYDESC
                                                                                                                            #LIB$ INSERTERR
#6, LIB$SIGNAL
LIB$GL_MODNAMIX
LIB$GL_LIBCTL
#2, LBR$SET_INDEX
STATUS, 3$
                                                                                                                PUSHL
CALLS
PUSHAB
PUSHAB
                                                                0000000G
                                                                      0000G
                                                                                                                                                                                                  1557
                                                                                                                CALLS
BLBS
PUSHL
                                                           66
0B
                                                                                                                             STATUS
                                                                                                                PUSHL
                                                                                                                PUSHL
                                                                                          0007C
0007E
00081
                                                                                                                PUSHL
                                                           50
                                                                                                                            #4. LIB$SIGNAL
#1, RO
                                                                                                                CALLS
                                                                                                                MOVL
                                                                                                                                                                                                  1559
                                                                                           00084
                                                                                                                RET
                                                                                                                                                                                                  1560
; Routine Size: 133 bytes,
                                              Routine Base: $CODE$ + 04E9
                       1561 1 END
1562 0 ELUDOM
    506
507
                                                                                                 ! Of module
                                                                                                                .EXTRN LIB$SIGNAL
                                                           PSECT SUMMARY
           Name
                                                 Bytes
                                                                                               Attributes
                                                                NOVEC, WRT,
                                                                                      RD , NOEXE, NOSHR, LCL, RD , EXE, NOSHR, LCL,
                                                                                                                                   CON, NOPIC, ALIGN(2)
CON, NOPIC, ALIGN(2)
CON, NOPIC, ALIGN(2)
    $GLOBAL$
    SOWNS
                                                                                                                          REL.
    $CODE$
                                                                NOVEC, NOWRT,
                                                                                                                          REL,
                                                Library Statistics
                                                                     ----- Symbols -----
                                                                                                                   Pages
                                                                                                                                     Processing
           File
                                                                    Total
                                                                                  Loaded
                                                                                               Percent
                                                                                                                   Mapped
                                                                                                                                     Time
     $255$DUA28:[SYSLIB]STARLET.L32;1
                                                                      9776
                                                                                        32
                                                                                                                     581
                                                                                                                                        00:01.1
```

LIB

Page 20 (6)

0200 AH-BT13A-SE

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